

**CMOS FABRICATED ON DIFFERENT
CRYSTALLOGRAPHIC ORIENTATION SUBSTRATES**

ABSTRACT

[0048] A microelectronic device including a first substrate bonded to a second substrate. The first and second substrate may have different crystallographic orientations. The first substrate includes an opening through which an epitaxially grown portion of the second substrate extends. A first semiconductor device is coupled to the first substrate. A second semiconductor device is coupled to the epitaxially grown portion of the second substrate.